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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

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This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
 THE APPRAISAL OF CONTENT IS TENTATIVE.
 (FOR KEY SEE REVERSE)

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~~SECRET~~(iii) Evaluation of Information

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1. The information is considered to be truthful and objective and is, as might be expected, somewhat limited in nature in view of the customary restraints [redacted] namely the very constrained atmosphere created by the 9th Directorate, MVD. [redacted]

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KASLISE Institute (SUNGUL).

2. Owing to the delay in arrival of its nominated director, ~~TIMOFEEV-ROSSOVSKY~~, in its early stages the work there was of an exploratory nature - was not, in fact, based on direct Russian requirements but planned by the individuals themselves, who were also preoccupied by the administrative and planning aspect of the organization of a new institute. It is believed that while the exact nature of the work and the research projects in which [redacted] colleagues were engaged may not be of great intrinsic intelligence value, there is a certain amount of importance attached to the capacity of the institute itself and its apparent relationship with two other establishments nearby. It is thought possible that after the removal of

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PART II - REPORT(a) Introductory Remarks

1. In so far as the relationship [] to the Russian atomic programme is concerned the story began [] at PLANYA NYAYA []

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[] together with a large number of technically and scientifically qualified personnel, some of whom were later recruited for work in SUKHUMI and elsewhere in related projects, most of them proceeding through KRASNOGORSK. The first move was made when a circular letter was issued by the MVD in May, 1946, to all camps instructing staffs to document and select all scientifically and technically qualified prisoners of war and send them to KRASNOGORSK.

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[] It is interesting to note that the policy to induct prisoners of this category into the Russian programme did not originally stem from Russian planning or requirement. The situation, it seems, arose mainly as a result of German thinking in that the original senior German executives of the atomic programme, who had been "persuaded" to come to Russia, such as von ARDENNE, STEENBECK and THIESSEN, had, in fact, requested the services of German personnel from their own mentors in the MVD when faced with the actual requirements which were expected of them.

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[] when these were originally presented to the above, the Russians had intended that their distinguished captives should set up installations, train and direct Russian personnel and, as it were, keep the whole affair within the confines of normal Russian activity. When, however, the degree of urgency of the programme was taken into consideration, together with the extreme difficulty of the tasks envisaged in their technical aspect alone, quite apart from administrative and linguistic problems, the German executives quite positively stated that the whole thing was impossible unless they could avail themselves of German skills and techniques, which at first they thought might be imported from Germany. The Russians considered that further recruitment of Germans from Germany itself on the scale required was not feasible and a decision was reached to try and discover the technical potential in the camps since encouraging reports had been received which might conceivably permit this measure to be carried out. The Russians were, it seems, not at all happy about the idea on security grounds since they felt that the involvement of so many foreigners in this work was dangerous. However, the measure was instituted on grounds of urgency []

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8. In this establishment they came under the supervision of Colonel URALETZ (NACHALNIK) and also a commandant, Major VERESCHAGIN; also, they were attended by an interpreter, SCHWANEK. At this period they lived in a 'daoha' in a wood and although there were no stookades their liberty was curtailed by constant escorting, although they were permitted to go for walks. The whole establishment was guarded by a garrison of about thirty MVD soldiers. Their material wants were well-cared for and they had generous issues of winter clothing and boots. It was a completely empty life because there was absolutely nothing there in the way of papers or books or occupation of any kind.

9. In January, 1947, they were joined by Dr. Otto BAIER, who arrived there from SUKHUMI

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10. In July, 1947, they were joined by a group of Russian condemned prisoners who were in a terribly bad state. Their clothes were in rags, their hair was long and matted and they seemed to be in a debilitated and rather sick condition. One of these was TIMOFEEV-RESSOVSKY. Others were GARBADUK, TSARAPKIN, formerly of BUCH, KATCHEFF, who came from the KARABASH Straflager. From this came TIMOFEEV, who had had pellagra very badly and whose eyes were in bad shape. Then came TIMOFEEV's and TSARAPKIN's families and the planning of the institute, its equipment and work began. Shortly after the start of this programme there was a complete break for a month during which everybody went and worked on a kholkoz, bringing in a potato harvest. Somewhat later, they were joined by the three German families, ZIMMER, BORN and CATSCH from ELEKTROSTAL at the end of 1947. At about the same time LANGE arrived with his daughter from SINOP. It was the general opinion that BORN, ZIMMER and CATSCH had completed an important assignment at ELEKTROSTAL and knew too much; they were, therefore, sent to the KASLISEZ Institute to cool off

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11. Shortly afterwards, Herbert SCHMITZ came from ELEKTROSTAL; in almost the same time BAIER left because he would not work and went, to work in a lamp factory near MOSCOW and then later, to GORKLY

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13. The work began by TIMOFEEV continuing with his Drosophila with which he had worked in BUCH, TSARAPKIN working with Macropodia "Macropoder"; CATSCH was working with rats injected with radio-active uranium components, mainly uranyl nitrate.

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14. As an example of this sort of thing, he cited the extraordinary ignorance of powerful senior executives such as ZAVENYAGIN, the Deputy Minister representing BERTA himself, who visited them occasionally. During one of these inspections, which was announced suddenly, the staff thought that it might be better to create an impression with intense scientific activity since, in fact, there was next to nothing going on at the time. [redacted] rigged up a rather impressive distillation assembly which was arranged to distil water during the visit. Since this was not sufficiently decorative they filled a flask with a solution of potassium permanganate which produced a highly satisfactory effect, and quite an impression on ZAVENYAGIN who was, however, somewhat mystified as to the purpose of the operation. In the absence of the actual staff responsible for the assembly the Russian conducting officer had to concoct a story about some oxidation process going on which appeared to satisfy ZAVENYAGIN, who withdrew after some forceful remarks. [redacted]

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ZAVENYAGIN had made a great reputation for himself by his performance during the construction programmes at MAGNITOGORSK and was [redacted] primarily responsible for the application of the Germans to the overall atomic programme and the administration of the establishments in which they worked under the 9th Directorate of the MVD. [redacted]

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15. The year 1948 was spent largely in the laboratory without any particular outcome. They were able at this time to listen to the radio and heard after a conference of the Foreign Ministers that all PW. would soon be sent home and thereupon applied for release. In the new year of 1949 they were posted by Colonel KUSNETSOV, with whom they had a long talk over the progress of their work. [redacted]

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16. A slightly curious situation arose in November, 1953 when, in spite of announcements about repatriation of prisoners, sentenced PW. such as those of the JUNG Group were returned while unsentenced prisoners serving their time in "quarantine" stayed behind.

(b) Personalities and Details of Work in KASLISEE Institute
(as at March, 1949)

1. Biological Work Group

This group was engaged on problems connected with the damage or organisms through ionising radiation.

Head of Group:

Nikolai Vladimirovitch TIMOFEEV -ROSSOVSKI, ROSSOVSKY	Russian; biologist. Rate of pay: 1,500 roubles per month.
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Associate:

His wife, Elena Alexandrovna [TIMOFEEVNA] TIMOFEEV-ROSSOVSKY	Russian; biologist. Rate of pay: 1,800 roubles per month.
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(TIMOFEEV was a sentenced prisoner but his wife was not)

Serge Romanovitch TSARAPKIN,	Russian; biologist. Sentenced prisoner. Rate of pay: 800 roubles per month.
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LUTSCHUK,	Russian; biologist. Sentenced prisoner. Rate of pay: 800 roubles per month.
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2. Physics Group

Head of Group:

Dr. Karl ZIMMER,	German; physicist. Rate of pay: 6,000 roubles per month.
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Associate: VASILYEVICH
Nestor WASSILIEWITSCH,

GARBADUK,	Russian; mathematician. Sentenced prisoner. Rate of pay: 800 roubles per month.
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THYSSEN, Frau	Volga German; physicist. Sentenced prisoner. Rate of pay: 800 roubles per month.
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VYACHESLAV WJATSCHESLAV, Stepanovitch Lreu	Russian; physicist. Sentenced prisoner. Rate of pay: 800 roubles per month.
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3. Chemical Group

Head of Group:

Dr. BORN

German; chemist.
Rate of pay: 6,000 roubles
per month.

Dr. H. HENSCHEL,

German; chemist.
Rate of pay: 4,000 roubles
per month.

Dr. H. BECKER,

German, physicist.
Rate of pay: 4,000 roubles
per month.

Dr. M. SCHMIDT,

German; chemist.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

Dipl.-Ing. A. HOFFMANN,

German; chemist.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

4. Medical Group

Head of Group:

Dr. Alexander GATSCH,

German, Doctor of Medicine.
Rate of pay: 6,000 roubles
per month.

Dmitri Ivanovitch
SERBUKIN,

Bulgarian.
Sentenced prisoner.
Rate of pay: 2,000 roubles
per month.

Further members of the
department:

W. LANGE,

German; technician.
Rate of pay: 2,000 roubles
per month.

Friedrich SCHMITZ,

German; high frequency
technician. Rate of pay: 3,000
roubles per month.

Dr. KOCH,

German; chemist - librarian.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

5. Inorganic Chemistry Department

This was to be concerned with the possibility of separation
of isotope elements produced from an atomic pile through
ion-exchange methods.

Head of Group:

Professor VOZNESENSKIY,
WOSNESSENSKY,

Russian; chemist.
Sentenced prisoner.
Rate of pay: 1,500 roubles
per month.

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Associate:**ANOSHIN,**

Russian; chemist.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

MARTIN,

Russian; chemist.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

POZANSKY,

Russian; chemist.
Free worker.
Rate of pay: 1,100 roubles
per month.

6. Second Sub-Group**Head of Group:****Professor JUNG,**

German; chemist.
Sentenced prisoner.
Rate of pay: 1,100 roubles
per month.

Dr. H. STUHLREHER,

German; chemist.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

Dr. SCHULTE-OVERBERG,

German; chemist.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

Dr. G. PRÄTORIUS,

German; machine constructor.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

Dr. W. PROEWIS,

Austrian; chemist.
Sentenced prisoner.
Rate of pay: 800 roubles
per month.

(b) Equipment

1. During the period of the setting up of the KASLISEE Institute, a good deal of scientific equipment was delivered which did not appear to come in response to any demand but was evidently a planned move. Items are as follows:

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1. Geiger counter equipment - five large installations with numerical counting gear delivered from Leningrad.
 2. An American Electron Microscope installed by SCHMITZ.
 3. Several Oscillograph assemblies, American and Russian.
 4. 1 large Spectrograph. American.
- it could be used for optical as well as infra-red purposes.

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5. Numerous microscopes; general laboratory equipment such as glass apparatus, balances and general instruments. Equipment was both German and Russian. Much trouble was experienced with wrongly labelled bottles of Russian chemicals.
6. Although this was much needed, there was no X-ray equipment. THYSSEN and other members of his group built an X-ray tube from scratch; later, X-ray tubes of Russian manufacture were delivered. Chemicals and other laboratory equipment mostly were delivered from SVERDLOVSK.

2. [redacted] biological problems which at first were concerned with the sphere of protein chemistry, began in 1948. The nature of the work and programme was conceived by TIMOFEEFF, seemingly without direct guidance from the Russian side. Independent work was completed on possible chemical structural changes in the protein component of chromosomes in mutations and on a possible reaction mechanism of energy transfer in the albumen molecule [redacted]

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[redacted] The intention was to prove that chromosome mutations could be effected not only by direct hits on the albumen molecule but also indirectly by the OH radicals arising and by the formation of H_2O_2 . This work was a part of the general work comprising the entire task of the biological group for research into the effect of ionising radiation on organisms in general.

3. According to summaries of literature on the subject of the concept of the structure of the protein component of the chromosomes, considerations regarding a possible chemical reaction mechanism in the nucleo-proteid of chromosomes in cases of mutation were based on the conclusion that in this case not a ring structure in accordance with the "WRINCH" model but a chain structure was more probable in the albumen molecule. As the observed mutations of the *Drosophila Melanogaster* and other objects of experiments have proved to be reversible, in most cases in spontaneous, chemical or physical mutations, as well as in those caused by radiation, it was assumed that the chemical changes were possibly not to be found in a change of the main valence conditions of the protein but in a modification of the fine structure; this implies stereo-chemical changes of the lateral chains projecting from the chain molecules. The displacement of the dipole conditions of these lateral chains would cause the attachment of other stable but reversible intramolecular combinations e.g. also by a change in the direction of rotation of the optical activity of the asymmetrical carbon atom of the amino acid components, etc.

4. With regard to the problems of the energy transfer mechanism in the albumen molecule the hypothesis was put forward that the hydrogen 'bridges' which are assumed to be in existence between two albumen molecules are responsible for this.

- 11 -

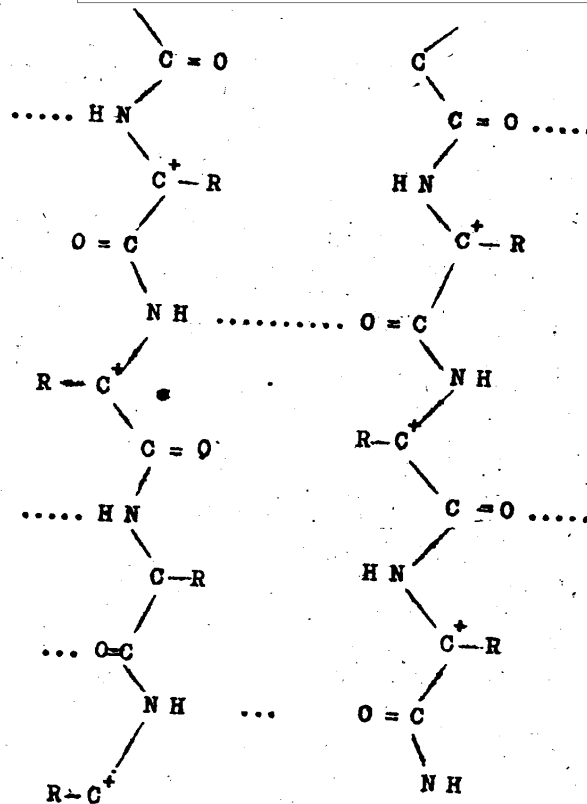
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It is conceivable, for instance, that by a change in the concentration of ions in the watery solution surrounding the albumen molecule, the hydrogen 'bridges' by which the water molecule is linked intramolecularly with the albumen molecule may be dissolved or displaced and that the displacement of the electrical condition results from this at the appropriate point in the giant molecule. In these conditions hydrogen bridges between the molecules could dissolve or form. A mechanism like this could progress along the molecule. Although the work on the above-mentioned problems had only just started it was stopped in March, 1949.

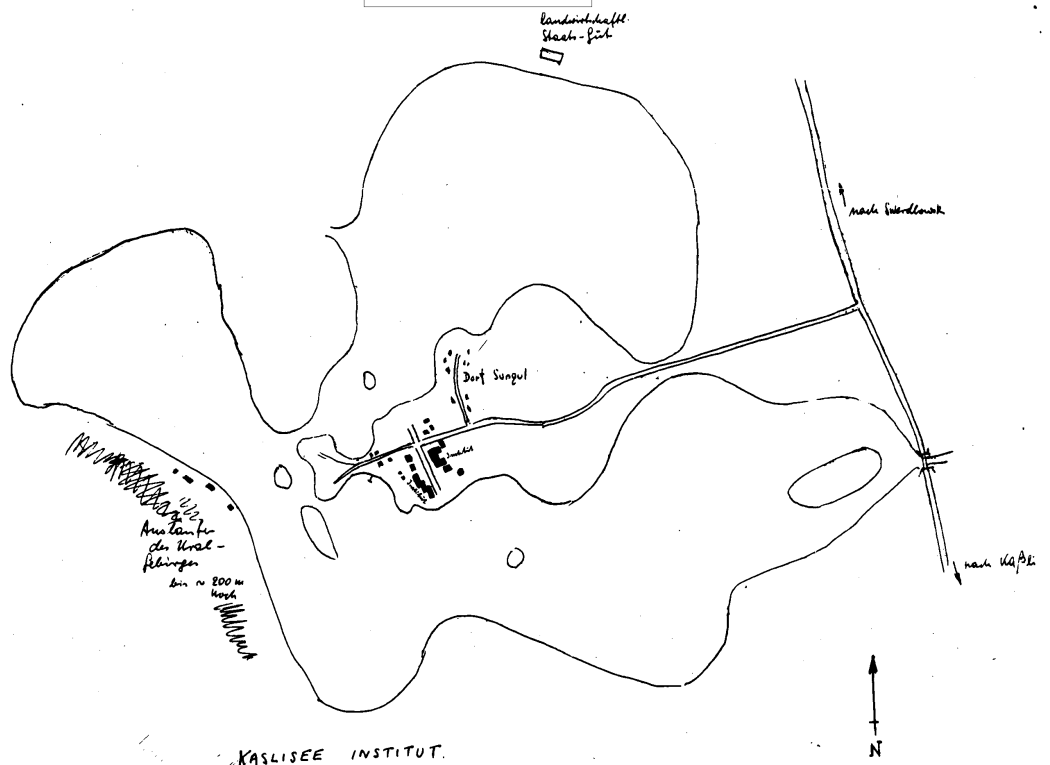
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PART III - APPENDICES

- Annexure I - Layout sketch of KASLISEE Institute.
- Annexure II - KASLISEE - Main building.
- Annexure III- KASLISEE - Dwelling-house and Laboratory building.
- Annexure IV - KASLISEE - Arrangement of buildings.

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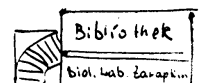
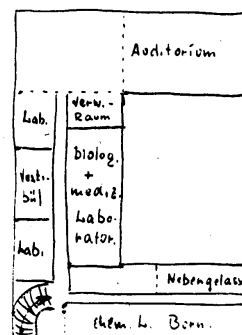
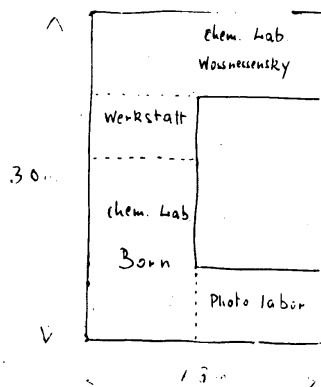
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Annexure II

Keller geschoss

1. Etage

Dachgeschoss



KASUSEE
INSTITUT GEBÄUDE.

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Annexure III

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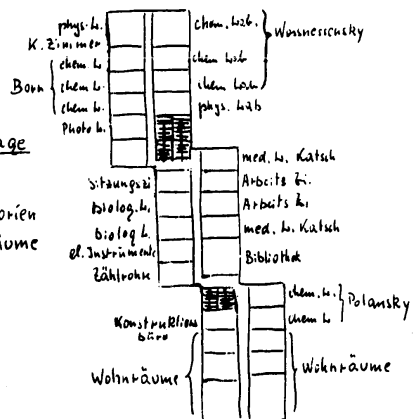
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Erdgeschoss

Verwaltungsräume
Küche
Speiseaal
Kino
Ambulatorium

A. Etage

Laboratorien
Arbeitsräume



2. Etage

Wohnräume

KASLISEE

WOHNHAUS, VERWALTUNG U. INSTITUT
GEBÄUDE.

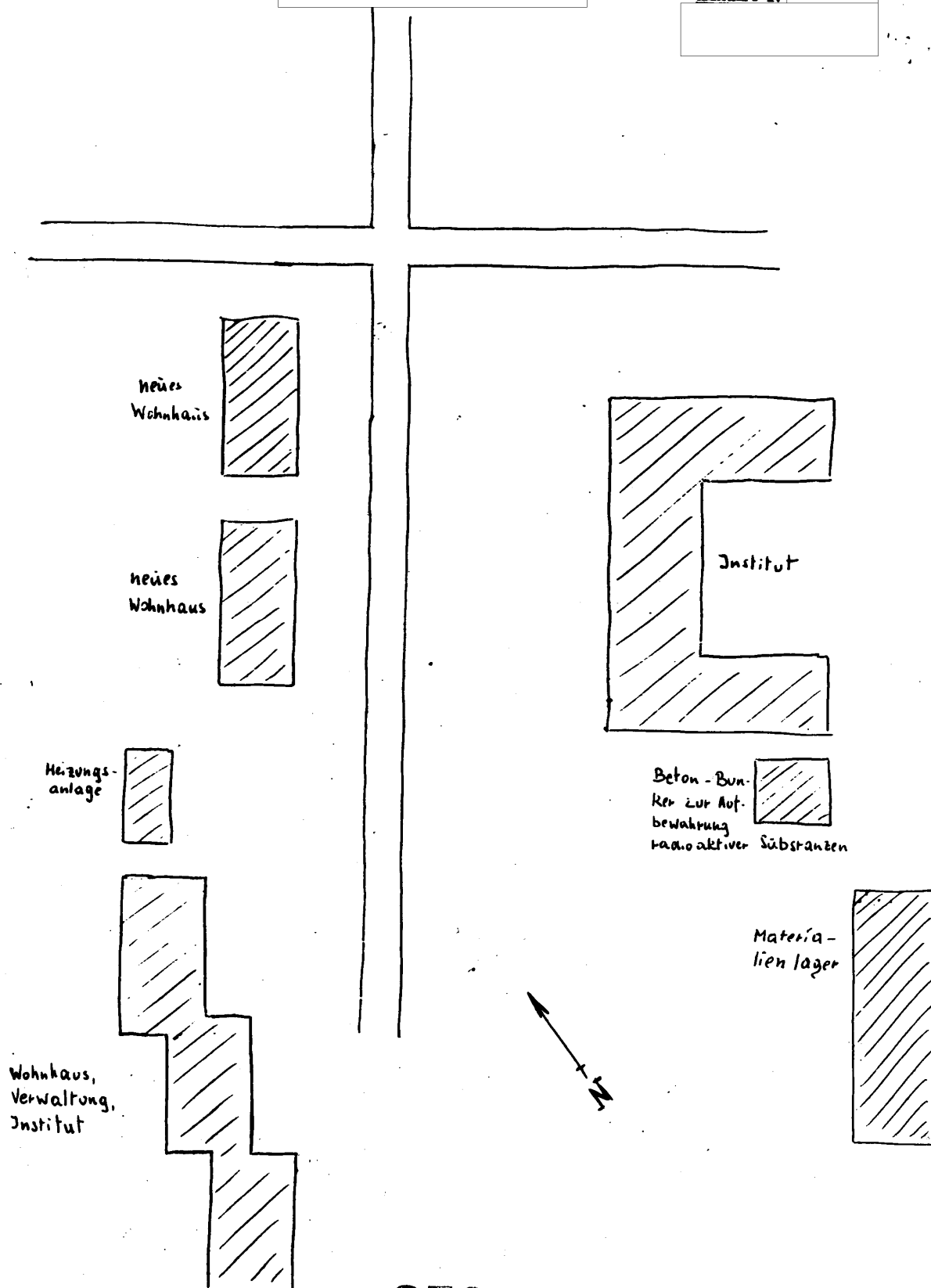
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